

FIGURE 2

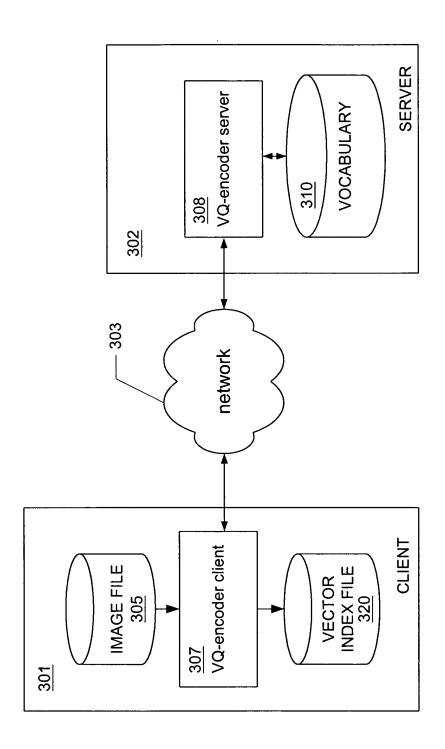
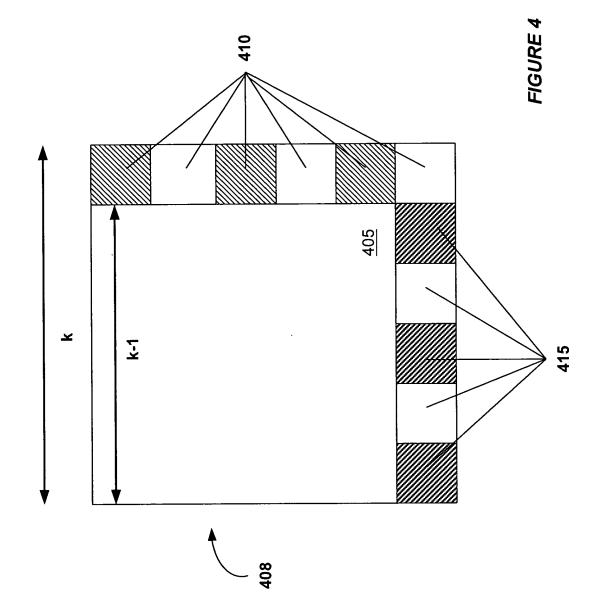
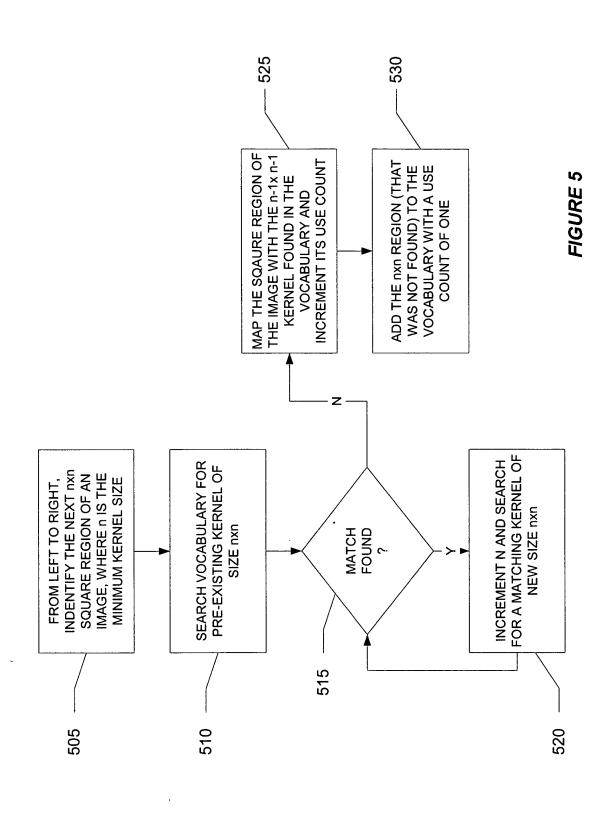


FIGURE 3





×439_20×n³≪ ×440_20×n	The state of the s		dwazis jubiau upiw	2. E 975	O IA ATIC	1 1 1 1 1	Size MB comp %ussne
20xn	230,818	39,230	33,546	1,255	3,765	16.7	%02
	296,146	48,738	34,134	1,587	4,760	16.5	%09
vs441_20xn	215,070	37,339	34,369	1,224	3,672	17.5	%02
vs 442 20xn	3,69,608	52,631	37,961	1,905	5,716	15.8	65%
vs443_20×n	118,670	29,667	26,488	749	2,248	19.4	%09
vs482_20×⊓	270,844	52,619	37,461	1,880	5,640	21.3	45%
vs483_20xn	149,627	35,429	31,703	1,071	3,214	22.0	45%
vs484 20xn	303,685	43,034	37,840	1,553	4,659	15.7	75%
vs485_20xn	278,714	49,734	39,962	1,895	5,686	20.9	45%
vs486_20xn	297,861	52,570	35,451	1,777	5,332	18.3	25%
JP2 KB Width Height Size Mp Size Mb Comp Wtissue	- size of - width o - height - size of - size of - compre - approx	JPEG20 of image of image image ii image ii ession ra	- size of JPEG2000 file in - width of image in pixels - height of image in pixels - size of image in Mpixels - size of image in Mbytes - compression ratio (JP2 v	 size of JPEG2000 file in Kbytes width of image in pixels height of image in pixels size of image in Mpixels size of image in Mbytes compression ratio (JP2 vs. image data) approximate %tissue on slide (vs. glass) 	je data) s. glass)		

Table 0. Sample table of liver slides used for study

slide	VIF KB	comp	#vectors	ave vect	ave vect VCB MB idx MB	idx MB	#vectors	ave vect idx time	idx time	enc time tot time	tot time
vs439_20xn	121,702	31.7	31,148,155	6.5	818	520	59,181,494	3.2	0:00:00	0:09:23	0:09:23
vs440_20xn	128,042	38.1	32,770,657	7.1	964	229	68,244,628	3.4	0:17:25	0:10:58	0:28:23
vs441_20xn	110,050	34.2	28,165,796	6.7	1,069	586	75,800,102	3.3	0:18:49	0:10:09	0:28:58
vs442_20xn	153,772	38.1	39,355,871	7.1	1,220	625	86,035,088	3.4	0:19:50	0:12:56	0:32:46
vs443 20xn	54,584	42.2	13,970,124	7.5	1,281	640	89,555,559	3.4	0:21:16	0:09:24	0:30:40
vs483_20xn	24,997	131.6	6,397,753	13.2	2,876	944	168,756,512	4.9	0:38:40	0:21:15	0:59:55
vs484 20xn	45,119	105.7	11,547,703	11.8	2,889	944	169,092,117	4.9	0:38:20	0:22:51	1:01:41
vs485_20xn	42,609	136.7	10,905,185	13.5	2,906	945	169,378,378	4.9	0:38:00	0:24:04	1:03:04
vs486_20xn	42,270	129.2	10,818,519	13.1	2,921	945	169,633,289	2.0	0:39:12	0:23:54	1:03:06
vs487 20xn	18,242	168.7	4,668,846	15.0	2,939	946	169,731,334	5.0	0:39:22	0:21:50	1:01:12

- name of slide

- size of vector index file in Kbytes VIF KB

- compression ratio (VIF vs. image data) Comp

- number of vectors in vector index file (number of kernels found in image) #vectors

- average size of vectors in vector index file (average size of kernels) ave vect

- size of vocabulary file after processing in Mbytes

- size of memory-resident index after processing in Mbytes VCB MB ldx MB

- number of vectors in vocabulary #vectors

- average size of vectors in vocabulary ave vect

- time required to load vocabulary index idx time

- time required to encode image (after index loaded) enc time total time required for processing (index time plus encode time) tot time

FIGURE 7

Vocabulary Convergence

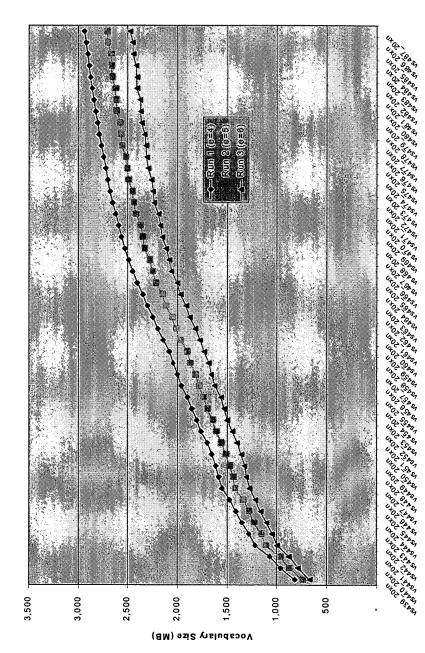


FIGURE 8

Index Convergence

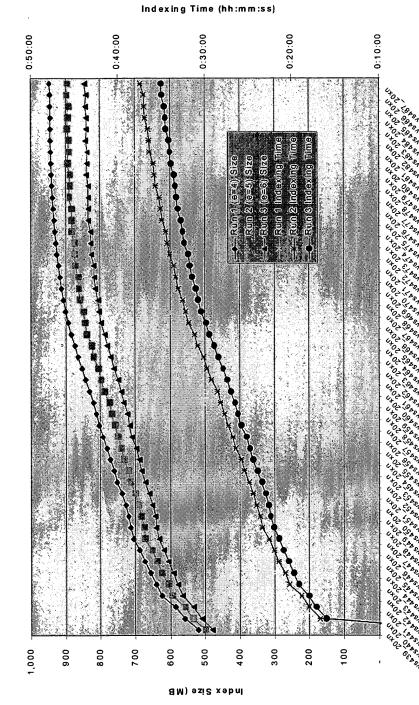


FIGURE 9

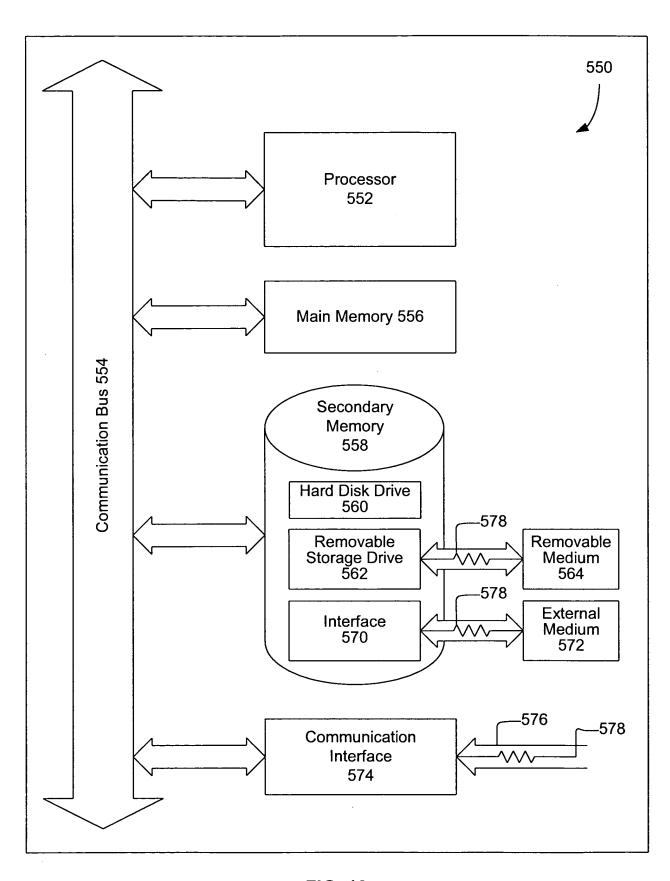


FIG. 10